State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-283 Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1985 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered light duty trucks:

| Engine Fami ly | Displace Cubic Inches | | Exhaust Emission Control Systems (Special Features) |
|-----------------------|--------------------------|-------|---|
| FFM2.3T5FFG6 | 140 | (2.3) | Exhaust Gas Recirculation Three-Way Catalyst with Closed Loop (Electronic Fuel Injection) |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the certification emission standards for this engine family to be listed on the window decal required by "California Assembly-Line Test Procedures for 1983 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles":

| Equivalent Inertia Weight | İnertia Hydrocarbons | | Nitrogen Oxides Grams per Mile | | |
|---------------------------------|----------------------|-----|-----------------------------------|--|--|
| 0-3999 | 0.39 | 9.0 | 1.0 | | |

The following are the certification emission values for the above engine family:

| Equivalent Inertia Weight | Hydrocarbons Grams per Mile | Carbon Monoxide Grams per Mile | Nitrogen Oxides Grams per Mile |
|---------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| 0-3999 | 0.29 | 3.7 | 0.4 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this $\frac{1}{2}h$ day of August, 1984.

K. D. Drachand, Chief Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

| Manufacturer _ | Ford Motor Company | Executive Order No. $A-10-283$ |
|----------------|------------------------|--------------------------------|
| Engine Family | FFM2.3T5FFG6 (F2.3TFG) | Evaporative Family 5HM |
| _ | | Engine CID (Liters) 140 (2.3) |

ABBREVIATIONS

Ignition System .

CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance
Control
VA-Vacuum Advance
VR-Vacuum Retard

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
'V-Variable Venturi

Exhaust Emissions Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TOC-Trap Oxidizer Continual
TOP-Trap Oxidizer Periodical
TR-Thermal Reactor
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber EFI-Electronic Fuel Injection IC - Intercooler MFI-Mechanical Fuel Injection TC-Turbocharged

VEHICLE MODELS:

Ranger 4x2
Regular Cab (SWB, LWB)
Chassis Cab (LWB)

Ranger 4x4
Regular Cab (SWB, LWB)

Bronco II 4x4 Standard

| DRIVE | SYSTEM:_ | Front | Engine/_ | Rear | -Wheel Drive |
|-------|------------|-------------|----------|------|--------------|
| | Engine Fan | nily F2.3TE | rG | | |

| Issue Date: | JUI : | 1 9 1984 | | 17-3 | | | |
|-------------|-------|----------|--|------|--|--|------|
| Revised | | | | | | | |

E.O. ·A -10-283

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars X Light-Duty Trucks

Medium-Duty Vehicles X Gas

| Engin | e Family FFM2.3T Special Features) | Page Engine Code CID (Liter)- Type | N | | | | |
|------------------------|--|--|------------------------------------|-------------------------------|--------------------------|--------------------------|-----------------------------|
| Engi ne Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System EEC IV Part No. | Fuel System EFI Part No. | EGR Valve Sonic Part No. | Label Ident. Part No. |
| 5-49S R01A/N | Ranger 4x2 RCS RCL RCC 4x4 RCS RCL | Y5X396 (M5) | 3000 V 4 3375 V 3125 3250 | E5TF-DB | Е59Е-НА | E59E-AC | CDD CHV CDD |
| | Bronco II 4x4 Standard Ranger 4x4 RCS RCL Bronco II 4x4 Standard | K5X397 (M5) | 3500 3125 3250 3500 | | | · | ٠., |
| | | | | | | · | |

Corments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Engine Family F2.3TFG

| Issue Date: JUL 1 9 1984 | 17-4A |
|--------------------------|-------|
| Revised: | |

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

| | e Family FFM2.3T | | Page 2B Engine Code 5-50S RO2A/N | | | | | |
|------------------------|--|-------------------------|----------------------------------|-------------------------------|--------------------------|--------------------------|----------------------------|--|
| | Special Features) | | | EFI) | CID (Liter)- Type _ | 140 (2.3) 14 | | |
| Engi ne Code | Vehicle Models (If Coded see attachment) | Trans. | Equiv. Test Weight | Ign. System EEC IV Part No. | Fuel System EFI Part No. | EGR Valve Sonic Part No. | label Ident. Part No | |
| 5-50S RO2A/N | Ranger 4x2 RCS RCL | A4X 006/007 (L 4) | 3000 | E5TF-FC | Е59Е-НА | E59E-AC | CDE | |
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Engine Family F2.3TFG

| Issue Date: JUI 1 9 1964 | 17-4B | |
|--------------------------|-------|---|
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E.O. A-10-283

Section 8.13.01.00 1985 LIGHT-DUTY TRUCK DPA TABLE

| | ETW | | No | n A/C | A | /c |
|---------------------------|-----------------------------|---|------|-------|------|-------|
| Truckline | Limit | | DPA | CDT | DPA | CDT |
| Ranger 4x2 | 3125 | | 11.4 | 13.46 | 12.5 | 12.48 |
| Ranger 4x2 | 3250 | | 11.7 | 13.87 | 12.9 | 12.88 |
| Ranger 4x2 Chassis Cab | 3625 @28 s q. ft. | | 15.2 | 11.47 | 16.6 | 10.68 |
| Ranger 4x2 Chassis Cab | 3875 @39'sq. ft. | | 18.1 | 10.98 | 19.5 | 10.33 |
| Ranger 4x4 | 3375 | | 11.8 | 12.98 | 13.0 | 12.12 |
| Ranger 4x4 | 3625 | | 12.2 | 13.49 | 13.4 | 12.52 |
| Bronco II | 3625 | | 11.0 | 14.24 | 12.1 | 13.26 |
| Bronco II | 3750 | | 11.5 | 14.24 | 12.6 | 13.35 |
| F-150 4x2 1/ | 4000 | | 13.2 | 13.24 | 14.5 | 12.41 |
| F-150 4x2 | 4500 | | 14.0 | | | |
| F-150 4x2 | 4750 | | 15.2 | 15.42 | 16.6 | 14.35 |
| F-250 4x2 | 5000 | R | 16.2 | 14.18 | 17.6 | 13.30 |
| | | В | 18.0 | 12.77 | 19.4 | 12.04 |
| F-150 4x4 | 5000 | R | 16.5 | 14.19 | 17.9 | 13.30 |
| . • | | B | 18.6 | 12.23 | 20.0 | 11.59 |
| F-250 4x4 | 5250 | R | 17.7 | 14.03 | 19.1 | 13.18 |
| | 5500 | В | 20.0 | 12.53 | 21.4 | 11.90 |
| Bronco | 5000 | R | 14.0 | 15.42 | 15.4 | 14.36 |
| | 5250 | B | 17.2 | 12.51 | 18.6 | 11.88 |
| E-150 | 5250 | R | 15.2 | 15.38 | 16.6 | 14.35 |
| "E-250 | 5500 | R | 17.3 | 14.16 | 18.7 | 13.31 |
| | 6000 | В | 18.0 | 13.71 | 19.4 | 13.05 |

NOTES

B=Bias R=Radial tires (All values for radial tires except where noted)

1/ F-150 (4000 ETW, Radial Tires and 1" x 50" spoiler)

| Engin | e Family . | F Z • · | <u> </u> | | | | | | |
|-------------|------------|---------|----------|-------------|------|--|--|---|--|
| Issue Date: | JUL 191 | 5 ·· | | | 17-5 | | | | |
| Payiend | | | | | | | | i | |